

Resource Summary Report

Generated by [NIF](#) on Sep 2, 2026

TRAMS

RRID:SCR_002003

Type: Tool

Proper Citation

TRAMS (RRID:SCR_002003)

Resource Information

URL:

http://figshare.com/articles/Tool_for_rapid_annotation_of_microbial_SNPs_TRAMS_a_simple_program

Proper Citation: TRAMS (RRID:SCR_002003)

Description: A software program for functional annotation of genomic single nucleotide polymorphisms (SNPs) which is available to download as a single file executable for WINDOWS users with limited computational experience and as a Python script for Mac OS and Linux users. It needs only a tab delimited text file containing SNP locations, reference nucleotide and SNPs in different strains along with a reference genome sequence in standard GenBank or EMBL format. It annotates SNPs as synonymous, non-synonymous or nonsense. Non-synonymous SNPs in start and stop codons are separated as non-start and non-stop SNPs, respectively. SNPs in overlapping features are annotated separately for each feature and multiple nucleotide polymorphisms (MNPs) within a codon are combined prior to annotation. A workflow has also been developed for use in Galaxy to map short reads to a reference genome and extract and annotate the SNPs.

Abbreviations: TRAMS

Synonyms: Tool for Rapid Annotation of Microbial SNPs, Tool for rapid annotation of microbial SNPs: a simple program for rapid annotation of genomic variation in prokaryotes, Tool for rapid annotation of microbial SNPs (TRAMS): a simple program for rapid annotation of genomic variation in prokaryotes, TRAMS: a simple program for rapid annotation of genomic variation in prokaryotes

Resource Type: software resource

Defining Citation: [PMID:23828175](#)

Keywords: single nucleotide polymorphism, windows, python, mac os, linux, synonymous, non-synonymous, nonsense, annotate, genomic variation

Availability: Free, Available for download, Freely available

Resource Name: TRAMS

Resource ID: SCR_002003

Alternate IDs: OMICS_01924

License: Creative Commons Attribution License

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260829T182057+0000

Ratings and Alerts

No rating or validation information has been found for TRAMS.

No alerts have been found for TRAMS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Zhu P, et al. (2018) Organ preservation with targeted rapamycin nanoparticles: a pre-treatment strategy preventing chronic rejection in vivo. RSC advances, 8(46), 25909.